DUPLICATE

Hydrological Memoranda No. 34

Monthly maps of average rainfall amounts, 1916-1950

Many requests have been received for monthly maps of average rainfall amounts, especially from agriculturalists, horticulturalists and silviculturalists, and these are now presented as Hydrological Memorandum No. 34, together with a transparent base map which shows the boundaries (the water partings) of the river authorities and conservancies of England and Wales and the purification boards and hydrometric areas of Scotland. The latter in many cases are grouped into major areas. This map can be used as an overlay for any of the twelve monthly maps. These monthly maps show isohyets in inches and the key gives approximate conversions to millimetres.* Very much simplified maps are being published in the current series of the "Monthly Weather Survey and Prospects".

Other maps of average rainfall, 1916-1950

A coloured map of average rainfall 1916-1950, Scale 1:625,000 (in two parts) is expected to be published before the end of 1966, by the Ordnance Survey, in the Ministry of Housing & Local Government series. A small inset map shows the average rainfall for the summer 6 months, April to September, as a percentage of annual average and 12 small monthly maps of average rainfall as percentage of annual average are included in the Explanatory Text, sold with the large coloured map. Simplified black and white maps of annual average rainfall are obtainable from the Meteorological Office (Met O 3) in two sizes, 18 x 27 in., or on foolscap 8 x 12 in.

E. H. Rowsell

Meteorological Office
Met O 3a
September 1966

* The correct conversion of inches to millimetres is, 1 in. = 25.4 mm. The actual values, in mm, appropriate to the isohyetal lines are:-

in.	mm	in.	mm	in.	mm
1.5	38.1	3	76.2	8	203.2
2	50.8	4	101.6	10	254.0
2.5	63.5	6	152.4	15	381.0

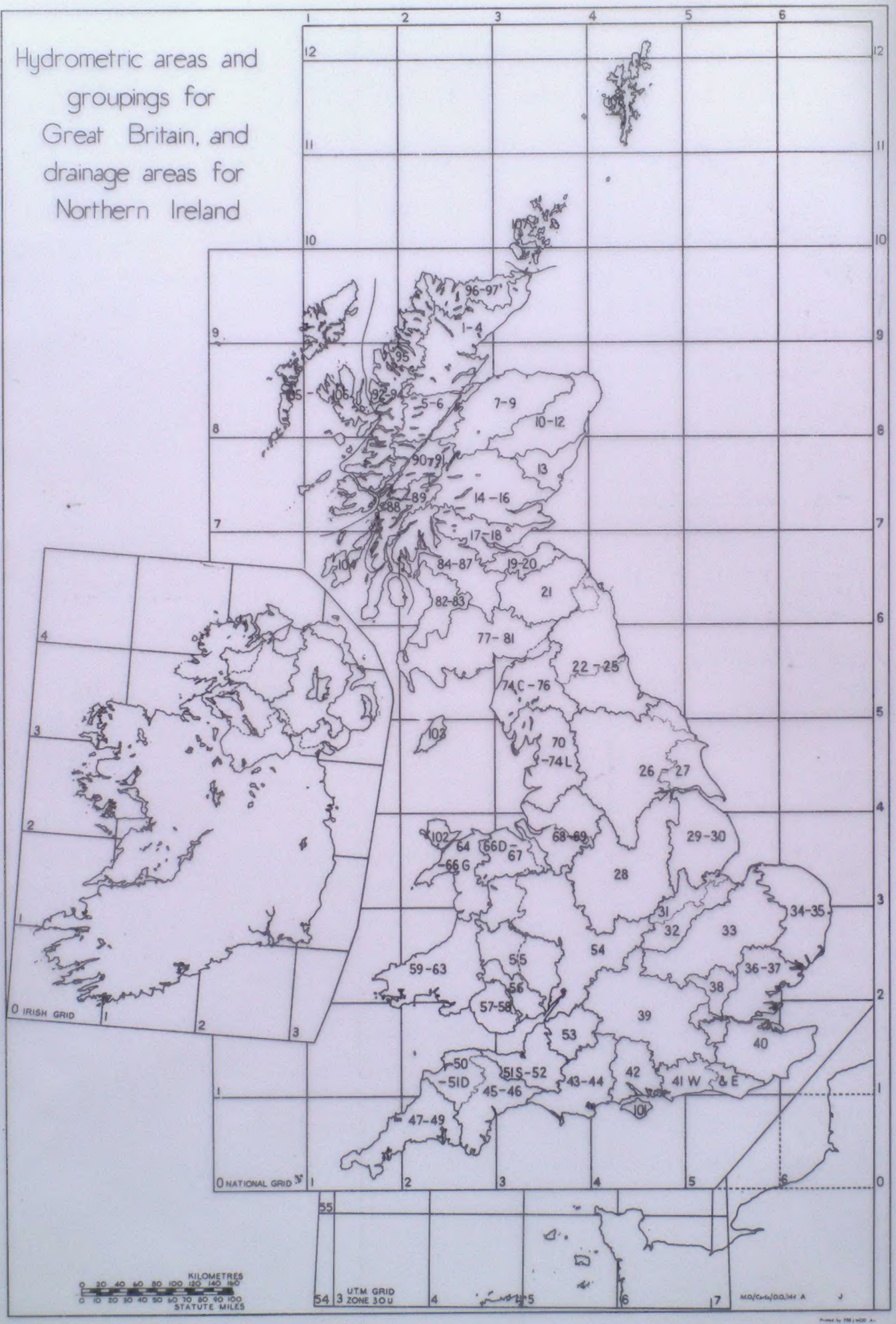
ORGS UKMO H

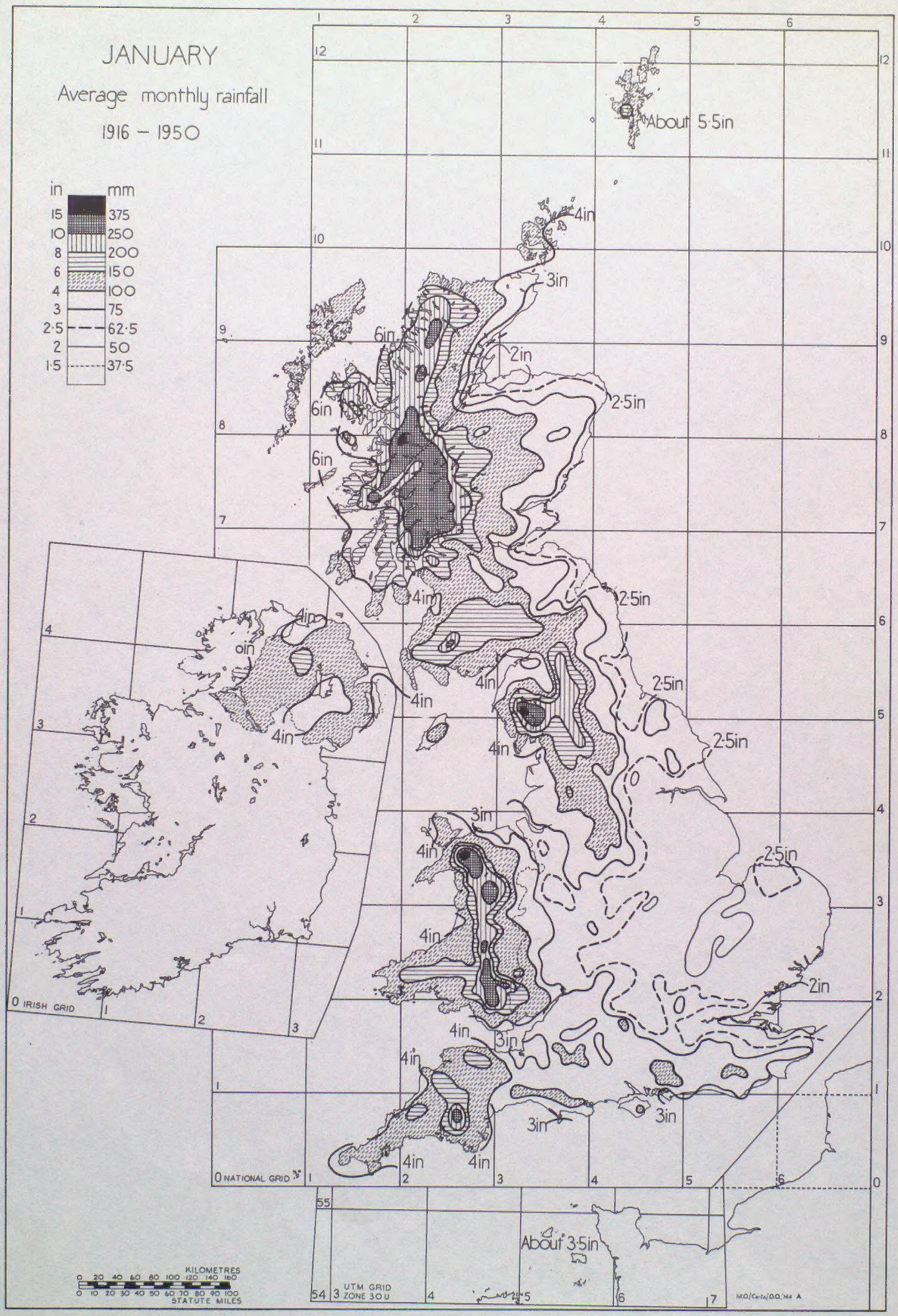
National Meteorological Library
FitzRoy Road, Exeter, Devon. EX1 3PB

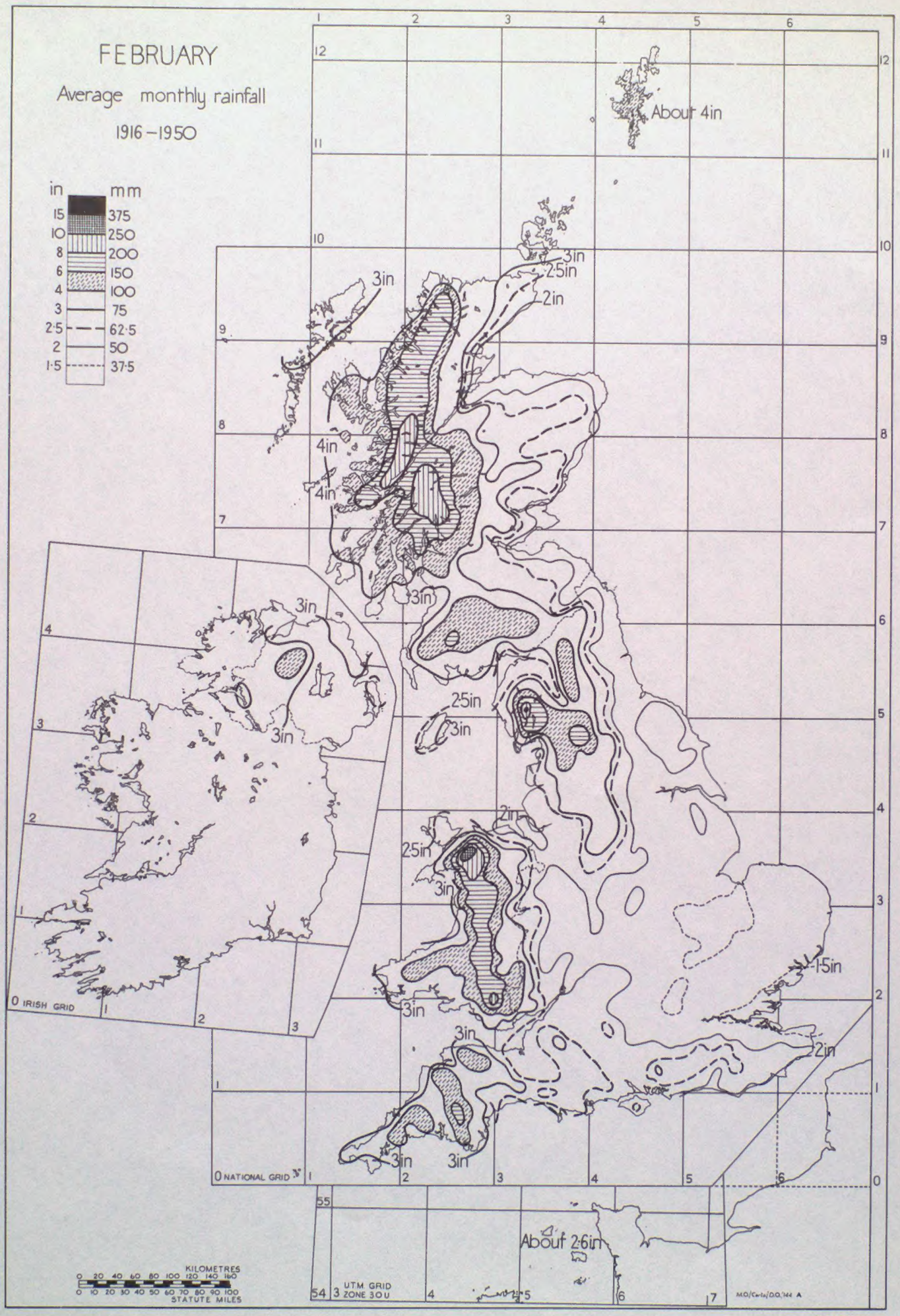
Hydrometric areas (and groupings) for Great Britain
and drainage-area groupings for N. Ireland

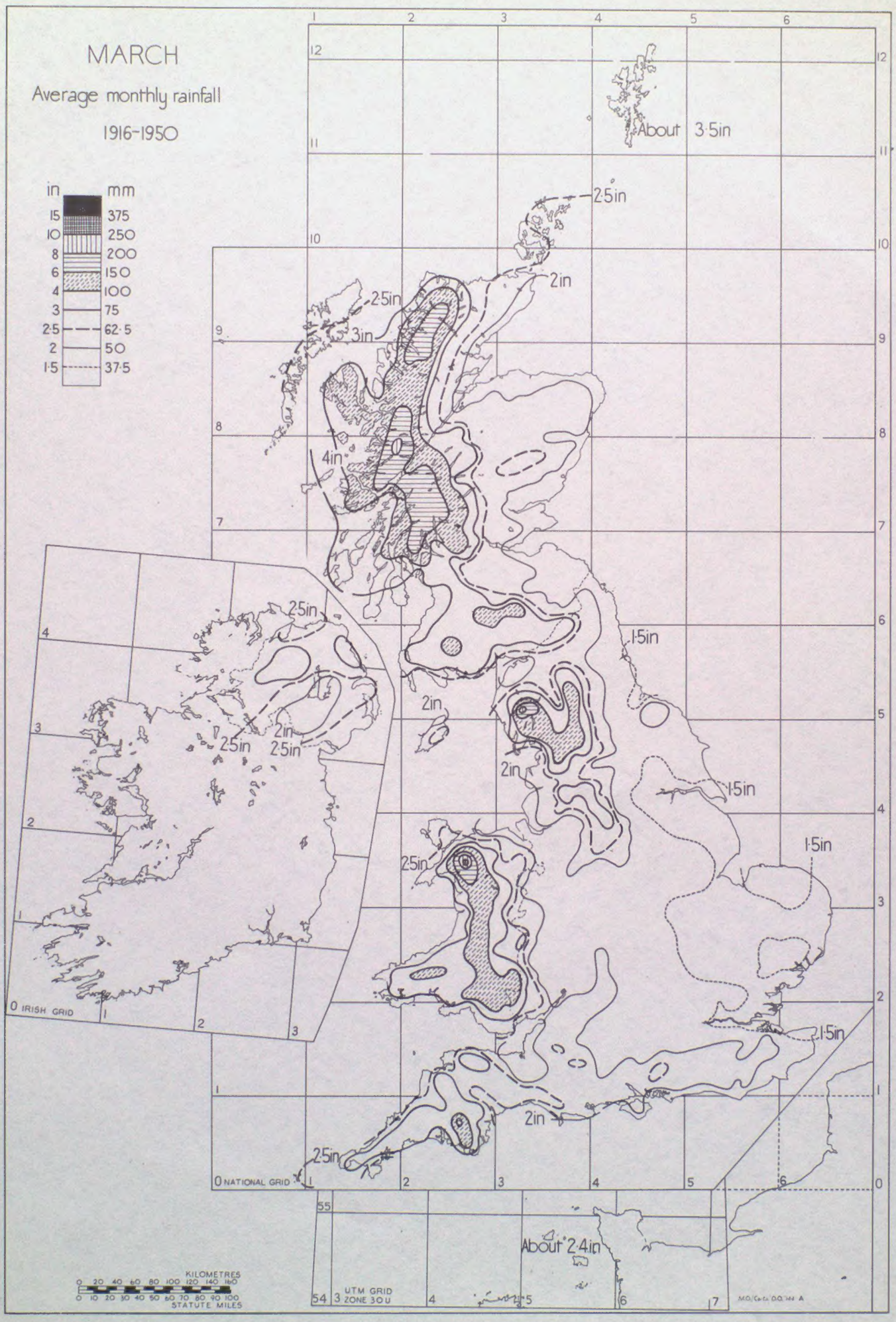
ENGLAND AND WALES Area	H.A.	SCOTLAND Area	H.A.
River Authority area		River Purification Board area	
Northumbrian	22-25		
Yorkshire Ouse and Hull	26-27	Solway	77-78
Trent	28	Ayrshire	82-83
Lincolnshire	29-30	Clyde	84-87
Welland and Nene	31-32		
Great Ouse	33	Hydrometric area grouping	
E. Suffolk and Norfolk	34-35		
Essex	36-37	Kintyre and SW islands	104
		Add, Awe and Etive	88-89
Conservancy area or London area		Lochy and Linnhe	90-91
		Shiel, Alsh and Maree	92-94
		Inner and Outer Hebrides	105-106
Lee	38	Laxford	95
London, left bank	39	Naver and Thurso	96-97
Thames	39	Orkney and Shetland Islands	105-106
London, right bank	39	Wick Water to Conon	1-4
		Beauly and Ness	5-6
River Authority area			
		River Purification Board area	
Kent	40		
Sussex	41 E and W		
Hampshire	42	Banff, Moray and Nairn	7-9
Isle of Wight	101	Dee and Don	10-12
Avon and Dorset	43-44	North and South Esk	13
Devon, south	45-46	Tay	14-16
Cornwall	47-49	Forth	17-18
Devon, north	50-51D	Lothians	19-20
Somerset	51S-52	Tweed	21
Bristol Avon	53		
Severn	54	NORTHERN IRELAND	
Wye	55		
Usk	56	Drainage area grouping	
Glamorgan	57-58		
South West Wales	59-63	Foyle and NW Streams	-
Gwynedd	64-66G, 102	Lough Foyle, east	-
Dee and Clwyd	66D-67	Bann and Lough Neagh	-
Mersey and Weaver	68-69	Bush and NE Streams	-
Lancashire	70-74L	Newry and SE Streams	-
Cumberland	74C-76	Erne and W Streams	-
ISLE OF MAN	103	CHANNEL ISLANDS	-

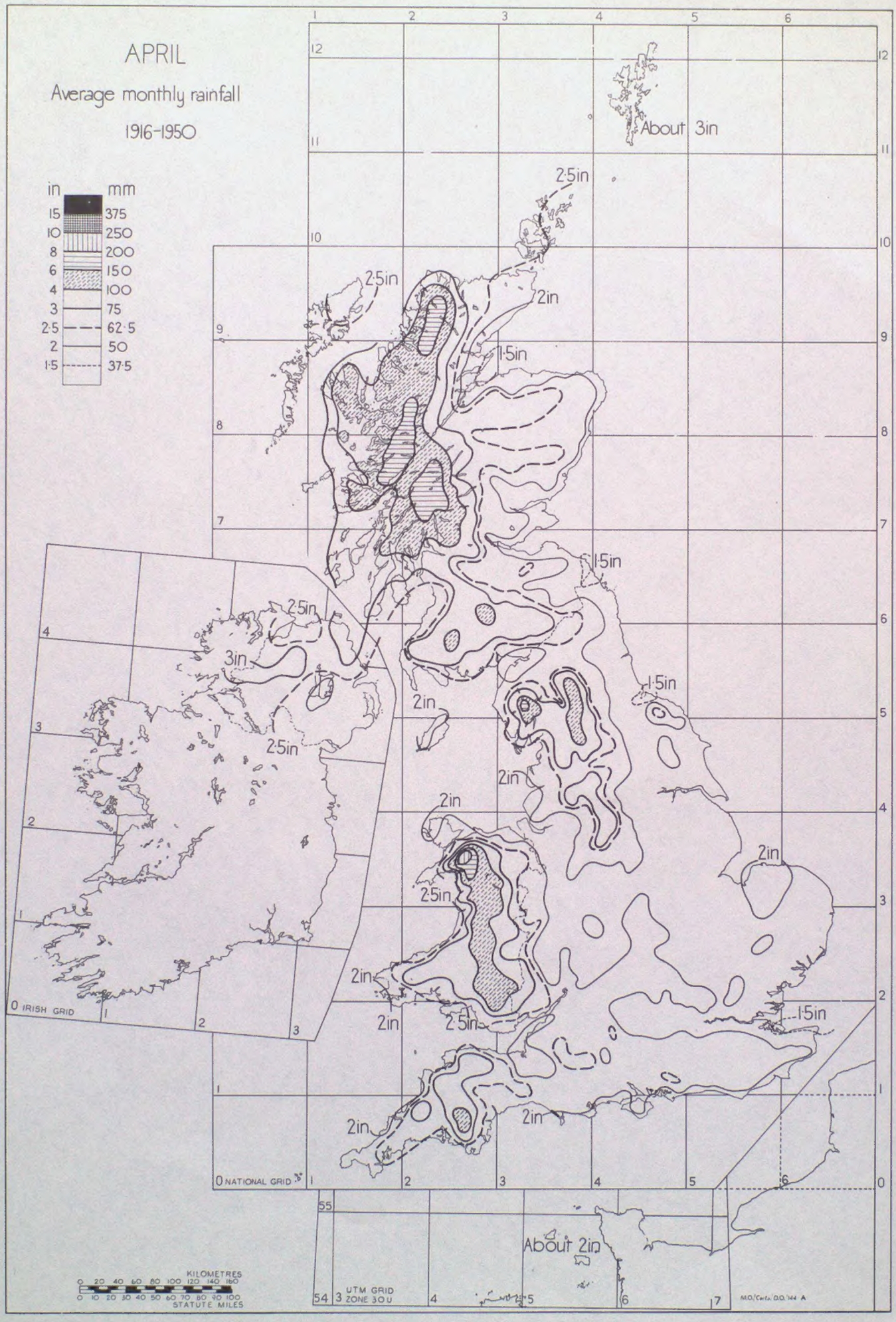
Hydrometric areas and groupings for Great Britain, and drainage areas for Northern Ireland

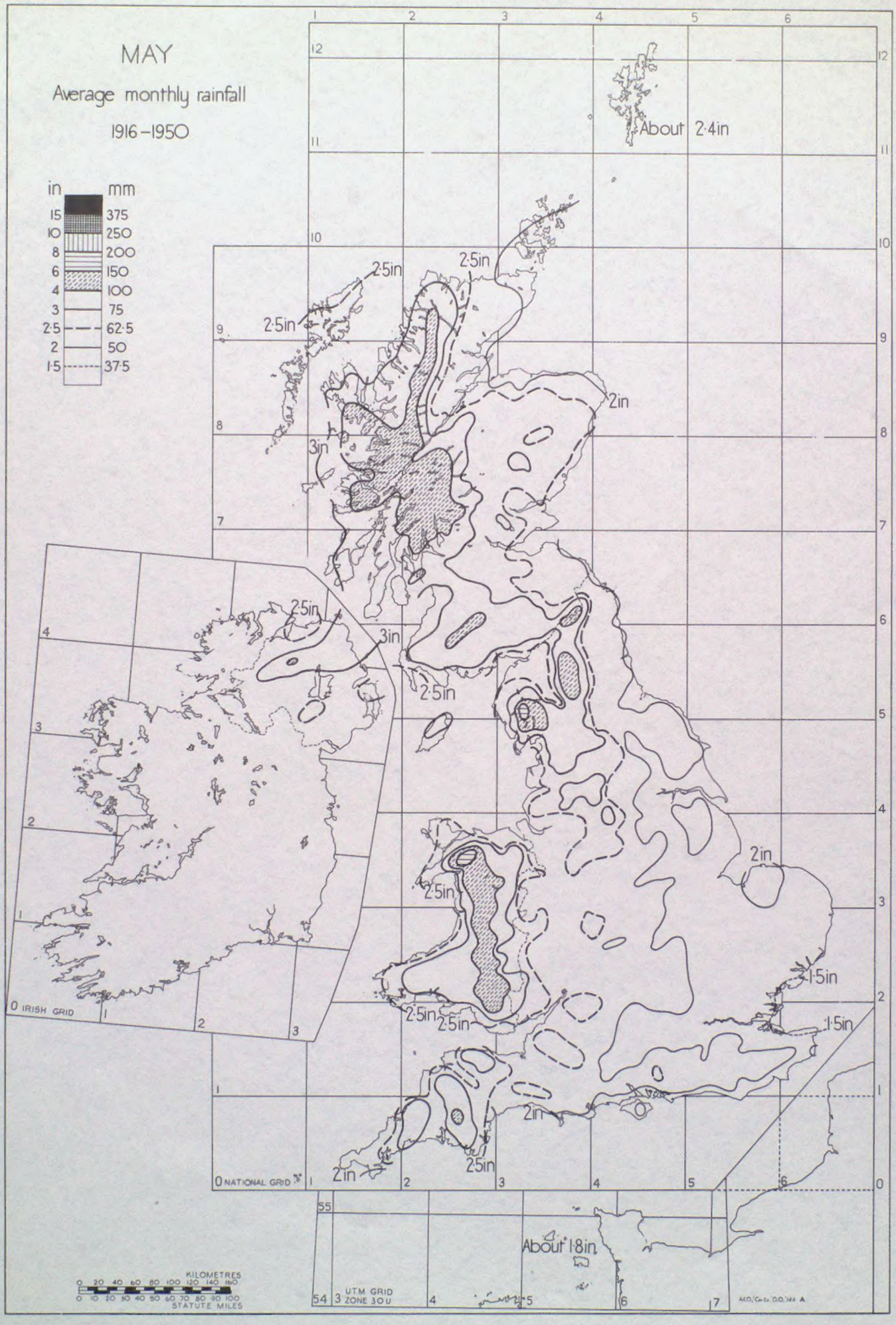


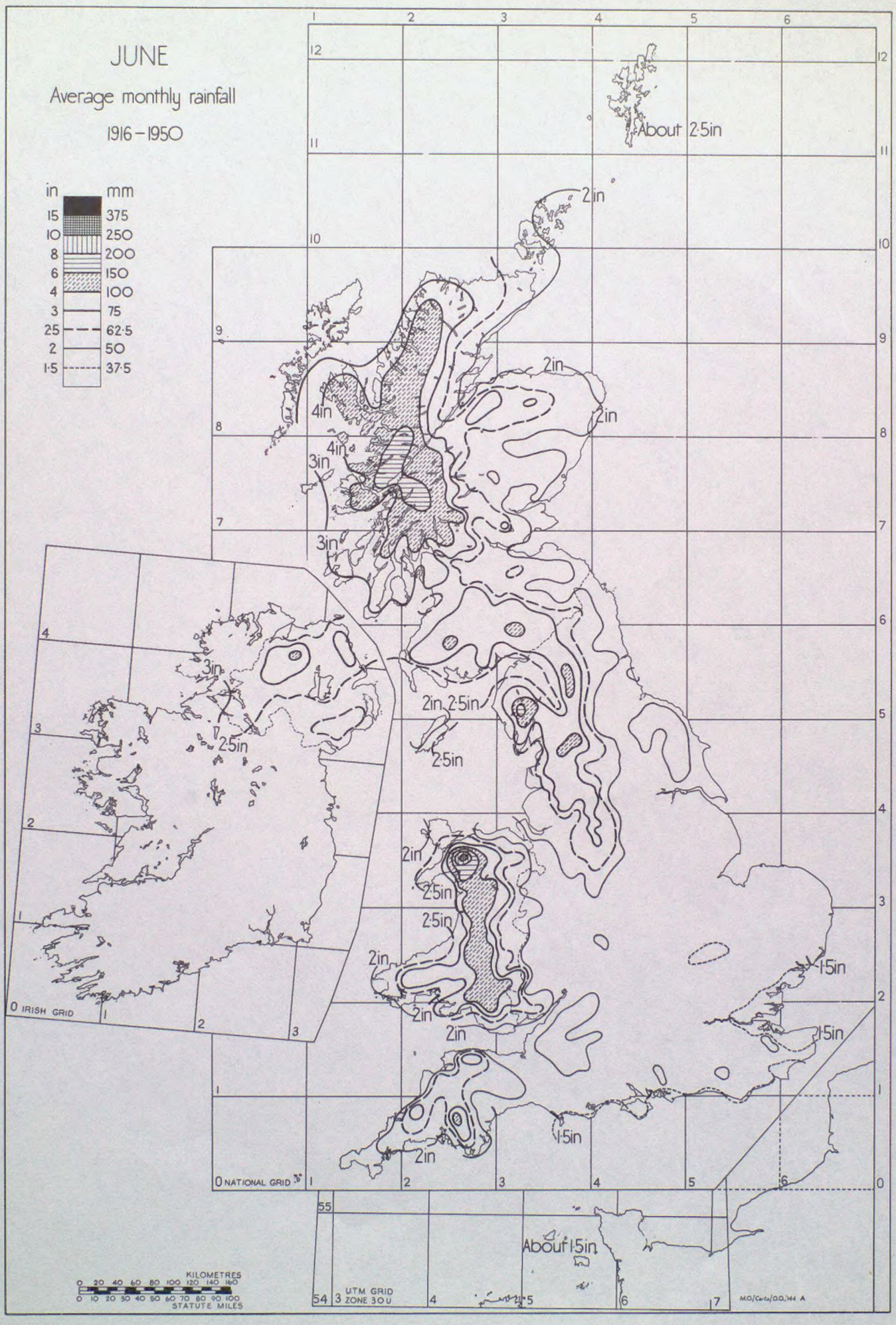

JANUARY
Average monthly rainfall
1916 – 1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 5·5in
About 3·5in
4in
3in
2in
2·5in
6in
oin
IRISH GRID
NATIONAL GRID
UTM GRID ZONE 30 U
KILOMETRES
STATUTE MILES

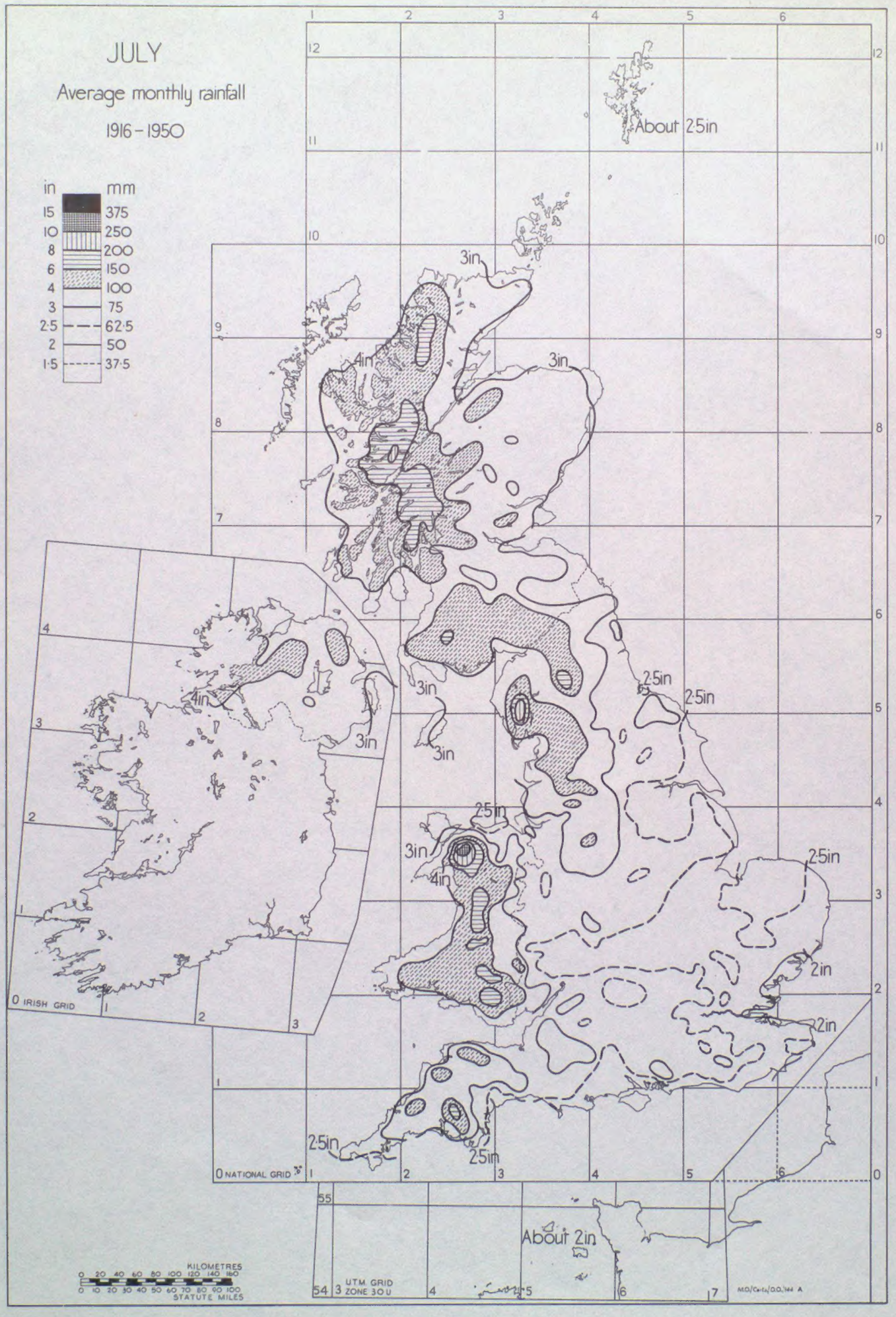

FEBRUARY
Average monthly rainfall
1916–1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 4in
3in
2·5in
2in
4in
4in
3in
3in
2·5in
3in
2in
2·5in
3in
1·5in
3in
3in
2in
3in
3in
About 2·6in
O IRISH GRID
O NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
UTM GRID
ZONE 30U
M.O./Cartg/D.O./144 A

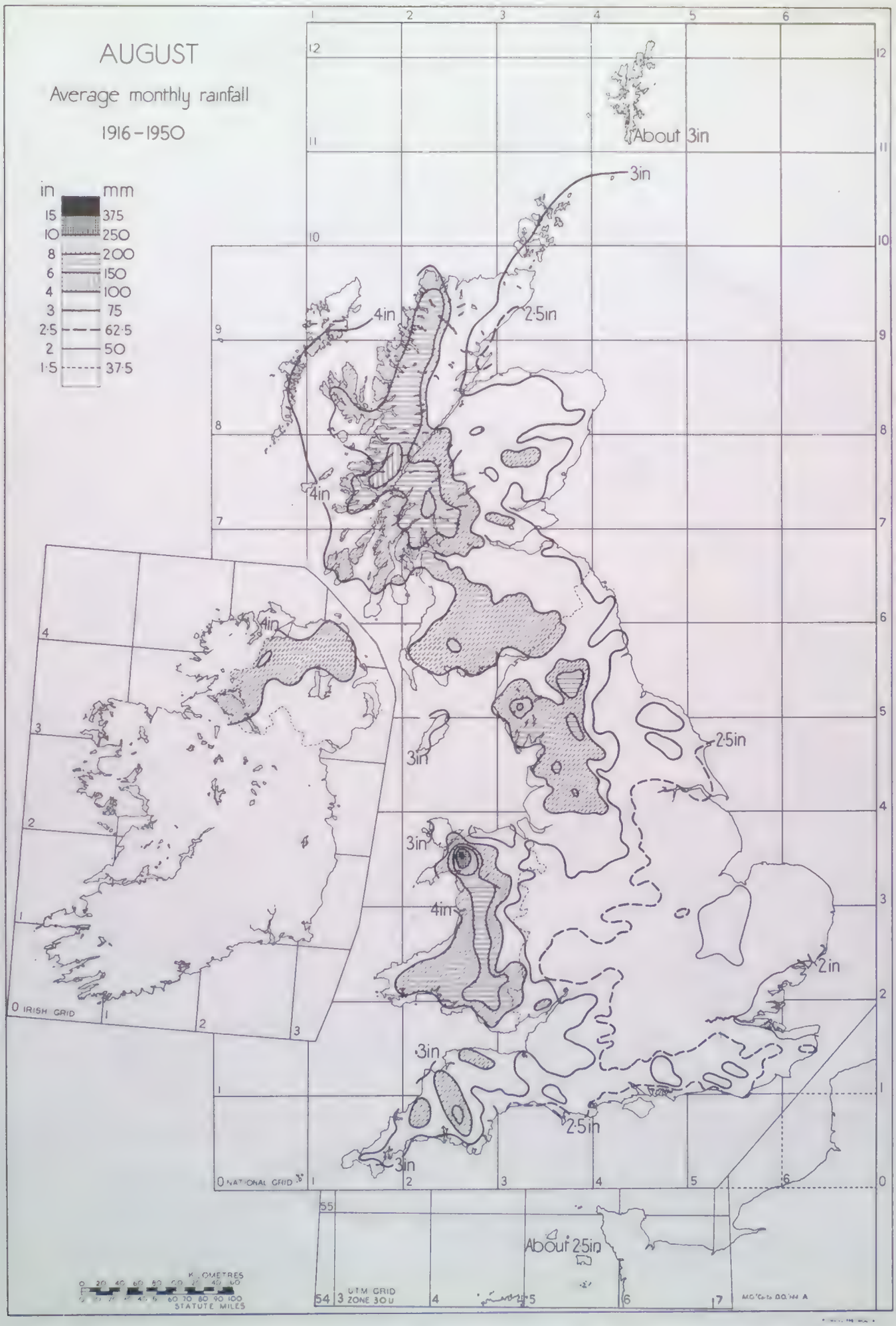

MARCH
Average monthly rainfall
1916-1950
in
mm
15
375
10
250
8
200
6
150
4
100
3
75
2·5
62·5
2
50
1·5
37·5
About 3·5in
2·5in
2in
2·5in
3in
4in
2·5in
2in
2·5in
2in
2·5in
1·5in
2in
2in
1·5in
2·5in
1·5in
1·5in
2in
2·5in
About 2·4in
0 IRISH GRID
0 NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
UTM GRID
ZONE 30U

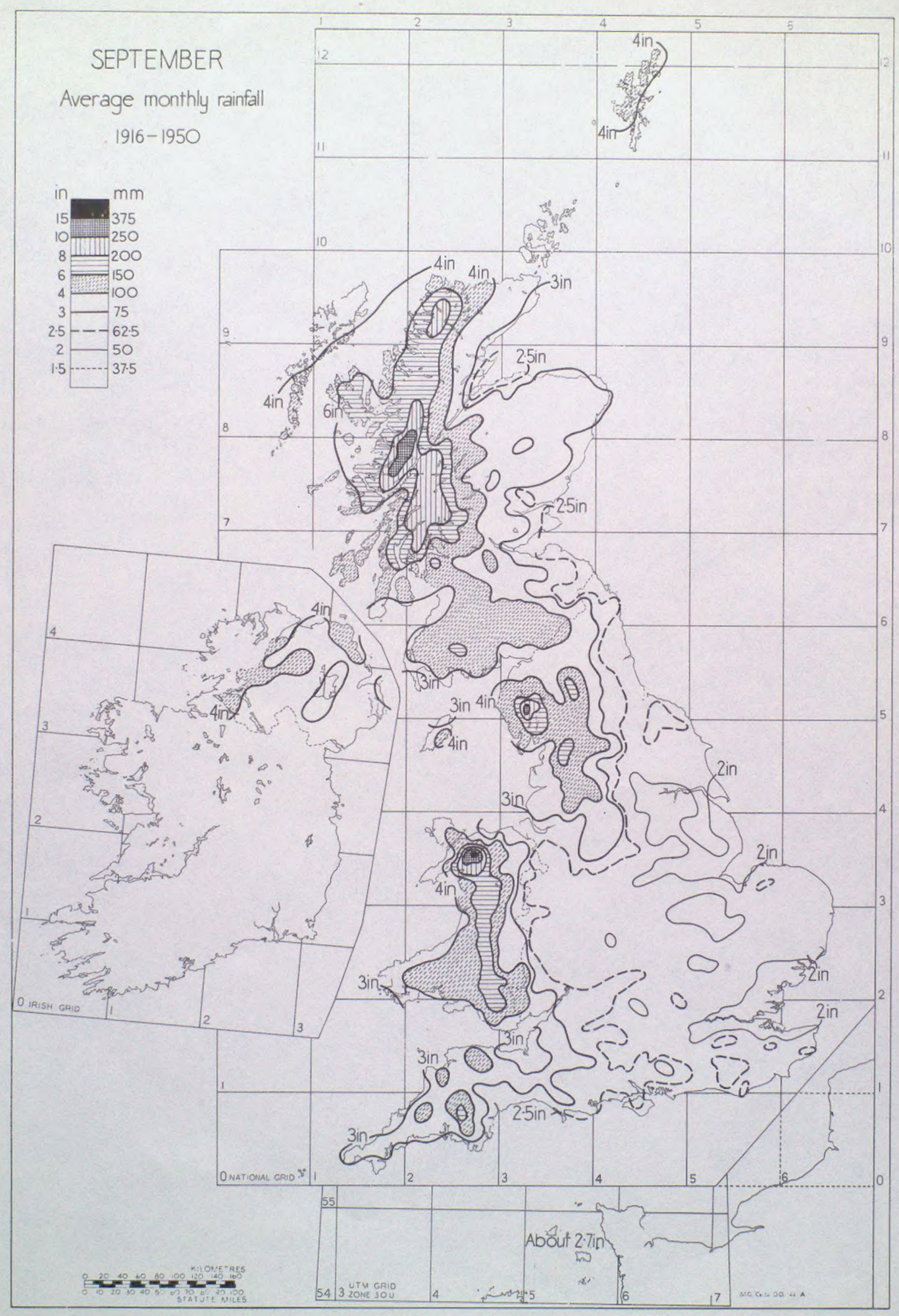

APRIL
Average monthly rainfall
1916–1950
in
mm
15
375
10
250
8
200
6
150
4
100
3
75
2·5
62·5
2
50
1·5
37·5
About 3in
2·5in
2in
1·5in
3in
About 2in
0 IRISH GRID
0 NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
UTM GRID
ZONE 30U
M.O./Cartn. D.O. 144 A

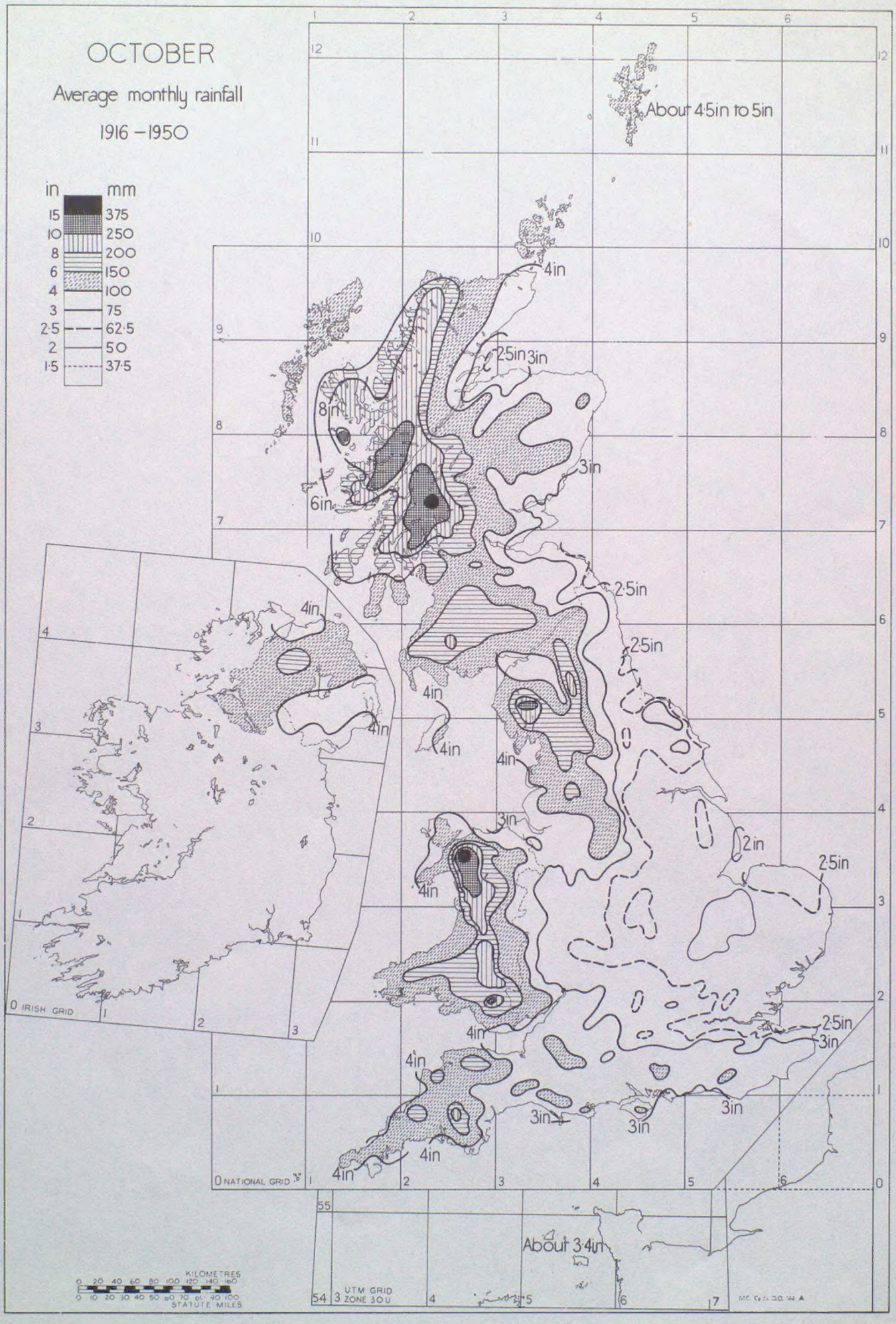

MAY
Average monthly rainfall
1916–1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 2·4in
2·5in
2·5in
2·5in
2in
3in
2·5in
3in
2·5in
2in
2·5in
1·5in
2·5in
2·5in
1·5in
2in
2in
2·5in
About 1·8in
0 IRISH GRID
0 NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
UTM GRID
ZONE 30U


JUNE
Average monthly rainfall
1916 – 1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 2·5in
2in
4in
3in
2·5in
1·5in
About 1·5in
O IRISH GRID
O NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
UTM GRID
3 ZONE 30U
M.O./Cartn/D.O./144 A


JULY
Average monthly rainfall
1916 – 1950
in
mm
15
375
10
250
8
200
6
150
4
100
3
75
2·5
62·5
2
50
1·5
37·5
About 2·5in
3in
4in
3in
3in
3in
4in
2·5in
2·5in
2·5in
3in
4in
2·5in
2in
2in
2·5in
2·5in
About 2in
O IRISH GRID
O NATIONAL GRID
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES
54 3 UTM GRID ZONE 30 U


AUGUST
Average monthly rainfall
1916–1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 3in
3in
4in
2·5in
4in
4in
3in
2·5in
3in
4in
2in
3in
2·5in
3in
About 2·5in
IRISH GRID
NATIONAL GRID
KILOMETRES
STATUTE MILES
UTM GRID
ZONE 30 U


SEPTEMBER
Average monthly rainfall
1916–1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
4in
3in
2·5in
6in
2in
About 2·7in
O IRISH GRID
O NATIONAL GRID
UTM GRID
3 ZONE 30U
KILOMETRES
STATUTE MILES


OCTOBER
Average monthly rainfall
1916 – 1950
in
mm
15
375
10
250
8
200
6
150
4
100
3
75
2·5
62·5
2
50
1·5
37·5
About 4·5in to 5in
4in
2·5in
3in
8in
6in
2·5in
2·5in
4in
4in
4in
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About 3·4in
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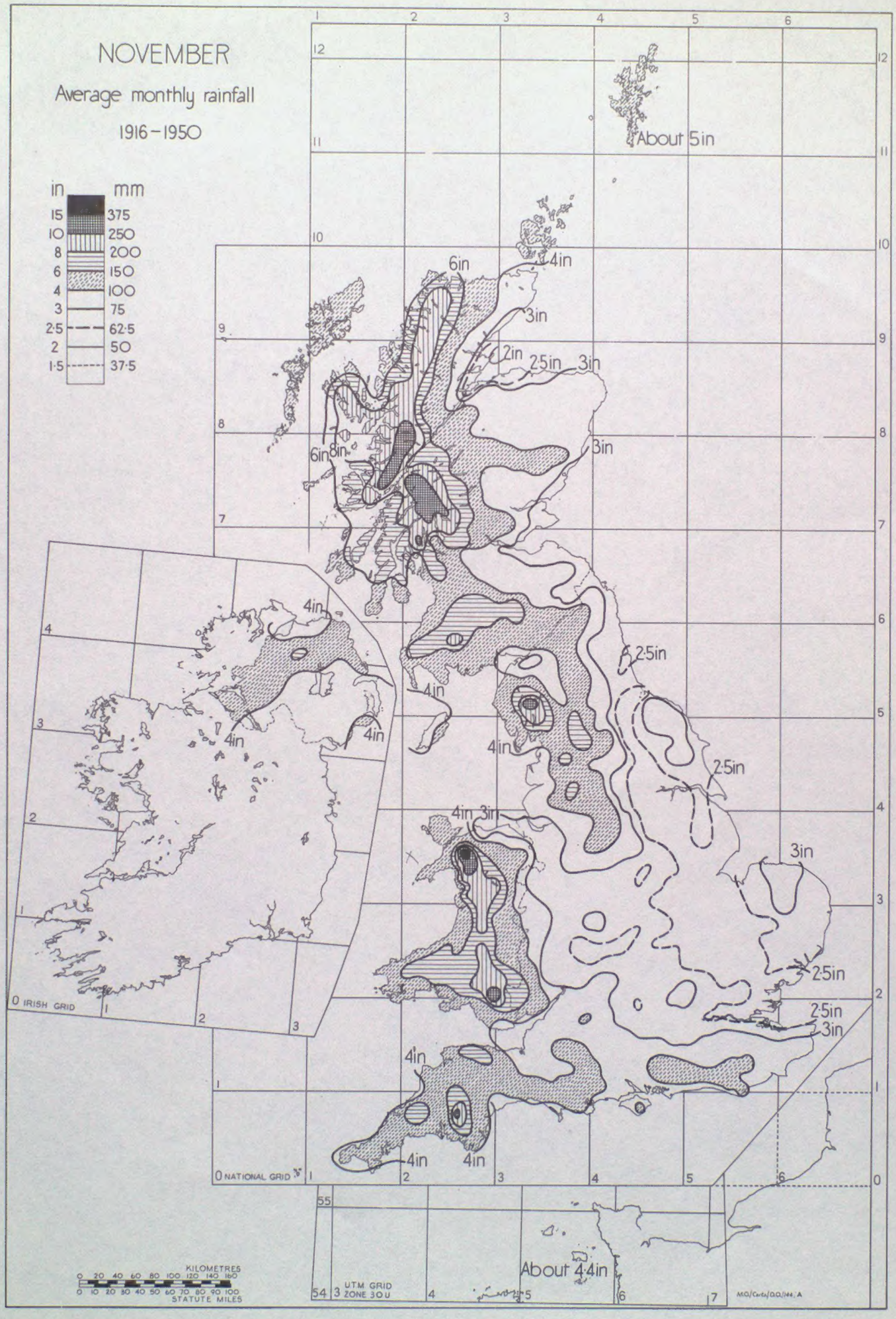
O NATIONAL GRID
UTM GRID
3 ZONE 30 U
KILOMETRES
STATUTE MILES


NOVEMBER
Average monthly rainfall
1916–1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 5in
6in
4in
3in
2in
2·5in
3in
6in
8in
3in
4in
4in
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4in
2·5in
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3in
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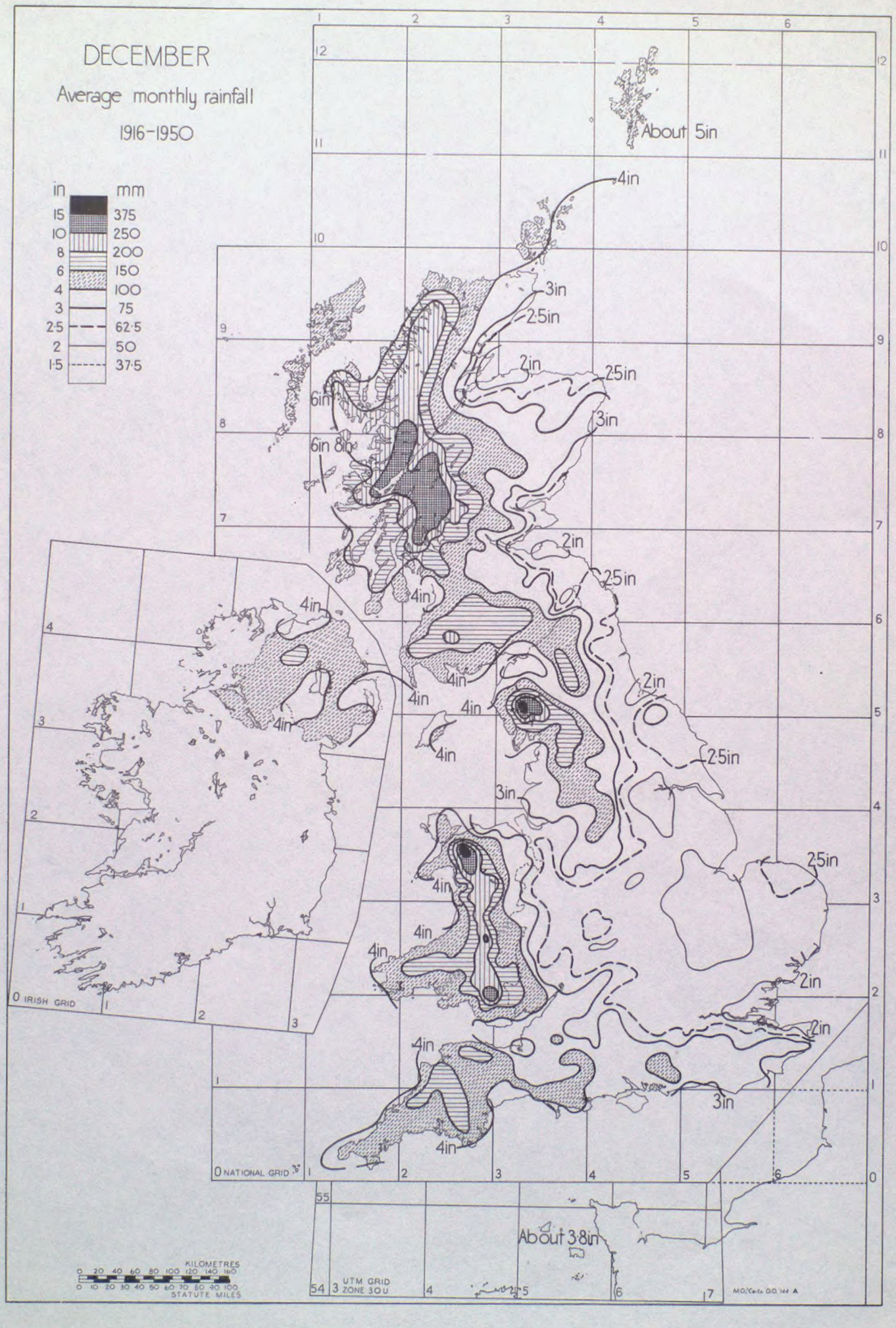
2·5in
3in
4in
4in
4in
About 4·4in
O IRISH GRID
O NATIONAL GRID
UTM GRID ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES


DECEMBER
Average monthly rainfall
1916-1950
in
mm
15 375
10 250
8 200
6 150
4 100
3 75
2·5 62·5
2 50
1·5 37·5
About 5in
4in
3in
2·5in
2in
6in
6in 8in
About 3·8in
O IRISH GRID
O NATIONAL GRID
UTM GRID
3 ZONE 30U
KILOMETRES
0 20 40 60 80 100 120 140 160
0 10 20 30 40 50 60 70 80 90 100
STATUTE MILES